

FILE COPY
10/057,748**WEST Search History**

DATE: Monday, July 29, 2002

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L3	L1 same (ammonium sulfate)	0	L3
L2	L1 and (ammonium sulfate)	402	L2
L1	RNA isolation	2297	L1

END OF SEARCH HISTORY

FILE COPY

10/057,748

WEST Search History

DATE: Monday, July 29, 2002

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L6	L1 and (ammonium sulfate)	3	L6
L5	L3 and ammonium sulfate	36	L5
L4	L3 same ammonium sulfate	0	L4
L3	(RNA purification)	251	L3
L2	L1 same (ammonium sulfate)	0	L2
L1	method near10 (RNA purification)	26	L1

END OF SEARCH HISTORY

File Copy
10/057,748
updated

Dialog

Set	Items	Description
S1	2275777	(RNA) OR (RIBONUCLEIC(W)ACID?)
S2	1108	S1 (S) (AMMONIUM(W) (SULPHATE OR SULFATE))
S3	803	S2 (S) (PURIF? OR ISOLAT?)
S4	866	S2 AND (PURIF? OR ISOLAT?)
S5	260	S3 (S) (INHIB? OR DESTRUCT? OR DETROY?)
S6	277	S4 (S) (INHIB? OR DESTRUCT? OR DETROY?)
S7	273	S3 AND (INHIB? OR DESTRUCT? OR DETROY?)
S8	287	S4 AND (INHIB? OR DESTRUCT? OR DETROY?)
S9	287	S5 OR S6 OR S7 OR S8
S10	50	S9(S)CONCENTRATION
S11	34	RD S10 (unique items)
S12	0	S10 (S) 20G

SYSTEM:OS - DIALOG OneSearch

- File 5: Biosis Previews(R) 1969-2003/Apr W2
(c) 2003 BIOSIS
- *File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 6: NTIS 1964-2003/Apr W3
(c) 2003 NTIS, Intl Cpyrght All Rights Res
- *File 6: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 34: SciSearch(R) Cited Ref Sci 1990-2003/Apr W2
(c) 2003 Inst for Sci Info
- *File 34: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 40: Enviroline(R) 1975-2003/Mar
- File 50: CAB Abstracts 1972-2003/Mar
(c) 2003 CAB International
- *File 50: Truncating CC codes is recommended for full retrieval. See Help News50 for details.
- File 65: Inside Conferences 1993-2003/Apr W2
(c) 2003 BLDSC all rts. reserv.
- File 71: ELSEVIER BIOBASE 1994-2003/Apr W3
(c) 2003 Elsevier Science B.V.
- File 73: EMBASE 1974-2003/Apr W2
(c) 2003 Elsevier Science B.V.
- *File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 94: JICST-Eplus 1985-2003/Apr W3
(c) 2003 Japan Science and Tech Corp(JST)
- File 98: General Sci Abs/Full-Text 1984-2003/Mar
(c) 2003 The HW Wilson Co.
- File 103: Energy SciTec 1974-2003/Apr B1
(c) 2003 Contains copyrighted material
- *File 103: For access restrictions see Help Restrict.
- File 143: Biol. & Agric. Index 1983-2003/Mar
(c) 2003 The HW Wilson Co
- File 144: Pascal 1973-2003/Apr W2
(c) 2003 INIST/CNRS
- File 155: MEDLINE(R) 1966-2003/Apr W3
(c) format only 2003 The Dialog Corp.
- *File 155: Medline has been reloaded and accession numbers have changed. Please see HELP NEWS 155.
- File 156: ToxFile 1965-2003/Apr W3
(c) format only 2003 The Dialog Corporation
- *File 156: TOXLINE Special data is now available. See Help News156.
- File 162: CAB Health 1983-2003/Mar
(c) 2003 CAB International
- *File 162: Effective May 1, name changes from CAB Health to Global Health.
- File 172: EMBASE Alert 2003/Apr W3
(c) 2003 Elsevier Science B.V.
- File 305: Analytical Abstracts 1980-2003/Mar W5
(c) 2003 Royal Soc Chemistry
- *File 305: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.
- File 369: New Scientist 1994-2003/Apr W1
(c) 2003 Reed Business Information Ltd.
- File 370: Science 1996-1999/Jul W3
(c) 1999 AAAS
- *File 370: This file is closed (no updates). Use File 47 for more current information.
- File 399: CA SEARCH(R) 1967-2003/UD=13817
(c) 2003 American Chemical Society
- *File 399: Use is subject to the terms of your user/customer agreement.

Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2003/Mar
(c) 2003 ProQuest Info&Learning

File 91:MANTIS(TM) 1880-2002/Oct
2002 (c) Action Potential

File 110:WasteInfo 1974-2002/Jul
(c) 2002 AEA Techn Env.

*File 110: This file is closed (no updates)

File 135:NewsRx Weekly Reports 1995-2003/Apr W2
(c) 2003 NewsRx

*File 135: New newsletters are now added. See Help News135 for the complete list of newsletters.

File 164:Allied & Complementary Medicine 1984-2003/Apr
(c) 2003 BLHCIS

File 185:Zoological Record Online(R) 1978-2003/Apr
(c) 2003 BIOSIS

File 357:Derwent Biotech Res. 1982-2003/Apr W2
(c) 2003 Thomson Derwent & ISI

*File 357: File is now current. See HELP NEWS 357.

Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.

*File 467: For information about updating status please see Help News467.

File 8: Ei Compendex(R) 1970-2003/Apr W2
(c) 2003 Elsevier Eng. Info. Inc.

*File 8: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Mar
(c) 2003 The HW Wilson Co.

File 266:FEDRIP 2003/Mar
Comp & dist by NTIS, Intl Copyright All Rights Res

File 315:ChemEng & Biotec Abs 1970-2003/Mar
(c) 2003 DECHEMA

File 358:Current BioTech Abs 1983-2003/Mar
(c) 2003 DECHEMA

File Copy

10/057,748

updated

DIALOG

Set	Items	Description
S1	2274602	RNA OR (RIBONUCLEIC(W)ACID?)
S2	83482	((AMMONIUM(W) (SULFATE OR SULPHATE)) OR (NH4)2SO4)
S3	83463	(AMMONIUM(W) (SULFATE OR SULPHATE))
S4	1107	S1(S)S2
S5	1107	S1(S)S3
S6	2168	S1 AND S3
S7	2168	S1 AND S2
S8	6027889	(PURIFICATION OR PURIFYING OR PURIFIE? OR PURIFY OR ISOLAT- E? OR ISOLATING OR ISOLATION)
S9	1452	S7 (S)S8
S10	1601	S7 AND S8
S11	0	S9 (S) 20%
S12	0	S10 (S) 20%
S13	0	S10 AND 20%
S14	0	S9 AND 20%
S15	2	S9 AND (20(W)PERCENT)
S16	1	S9 (S) (20(W)PERCENT)
S17	1	S10 (S) (20(W)PERCENT)
S18	2	S10 AND (20(W)PERCENT)
S19	2	S15 OR S16 OR S17 OR S18
S20	2	RD S19 (unique items)

SYSTEM:OS - DIALOG OneSearch

- File 5: Biosis Previews(R) 1969-2003/Apr W2
(c) 2003 BIOSIS
- *File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 6: NTIS 1964-2003/Apr W3
(c) 2003 NTIS, Intl Cpyrght All Rights Res
- *File 6: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 34: SciSearch(R) Cited Ref Sci 1990-2003/Apr W2
(c) 2003 Inst for Sci Info
- *File 34: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 40: Enviroline(R) 1975-2003/Mar
- File 50: CAB Abstracts 1972-2003/Mar
(c) 2003 CAB International
- *File 50: Truncating CC codes is recommended for full retrieval. See Help News50 for details.
- File 65: Inside Conferences 1993-2003/Apr W2
(c) 2003 BLDSC all rts. reserv.
- File 71: ELSEVIER BIOBASE 1994-2003/Apr W2
(c) 2003 Elsevier Science B.V.
- File 73: EMBASE 1974-2003/Apr W2
(c) 2003 Elsevier Science B.V.
- *File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.
- File 94: JICST-EPlus 1985-2003/Apr W2
(c) 2003 Japan Science and Tech Corp(JST)
- File 98: General Sci Abs/Full-Text 1984-2003/Mar
(c) 2003 The HW Wilson Co.
- File 103: Energy SciTec 1974-2003/Apr B1
(c) 2003 Contains copyrighted material
- *File 103: For access restrictions see Help Restrict.
- File 143: Biol. & Agric. Index 1983-2003/Mar
(c) 2003 The HW Wilson Co
- File 144: Pascal 1973-2003/Apr W1
(c) 2003 INIST/CNRS
- File 155: MEDLINE(R) 1966-2003/Apr W2
(c) format only 2003 The Dialog Corp.
- *File 155: Medline has been reloaded and accession numbers have changed. Please see HELP NEWS 155.
- File 156: ToxFile 1965-2003/Apr W1
(c) format only 2003 The Dialog Corporation
- *File 156: TOXLINE Special data is now available. See Help News156.
- File 162: CAB Health 1983-2003/Mar
(c) 2003 CAB International
- *File 162: Effective May 1, name changes from CAB Health to Global Health.
- File 172: EMBASE Alert 2003/Apr W2
(c) 2003 Elsevier Science B.V.
- File 305: Analytical Abstracts 1980-2003/Mar W5
(c) 2003 Royal Soc Chemistry
- *File 305: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.
- File 369: New Scientist 1994-2003/Apr W1
(c) 2003 Reed Business Information Ltd.
- File 370: Science 1996-1999/Jul W3
(c) 1999 AAAS
- *File 370: This file is closed (no updates). Use File 47 for more current information.
- File 399: CA SEARCH(R) 1967-2003/UD=13816
(c) 2003 American Chemical Society
- *File 399: Use is subject to the terms of your user/customer agreement.

Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 1998 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2003/Mar

(c) 2003 ProQuest Info&Learning

File 91:MANTIS(TM) 1880-2002/Oct

2002 (c) Action Potential

File 110:WasteInfo 1974-2002/Jul

(c) 2002 AEA Techn Env.

*File 110: This file is closed (no updates)

File 135:NewsRx Weekly Reports 1995-2003/Apr W1

(c) 2003 NewsRx

*File 135: New newsletters are now added. See Help News135 for the complete list of newsletters.

File 164:Allied & Complementary Medicine 1984-2003/Apr

(c) 2003 BLHCIS

File 185:Zoological Record Online(R) 1978-2003/Apr

(c) 2003 BIOSIS

File 357:Derwent Biotech Res. 1982-2003/Apr W2

(c) 2003 Thomson Derwent & ISI

*File 357: File is now current. See HELP NEWS 357.

Alert feature enhanced for multiple files, etc. See HELP ALERT.

File 467:ExtraMED(tm) 2000/Dec

(c) 2001 Informania Ltd.

*File 467: For information about updating status please see Help News467.

File 8: Ei Compendex(R) 1970-2003/Apr W1

(c) 2003 Elsevier Eng. Info. Inc.

*File 8: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Mar

(c) 2003 The HW Wilson Co.

File 266:FEDRIP 2003/Feb

Comp & dist by NTIS, Intl Copyright All Rights Res

File 315:ChemEng & Biotec Abs 1970-2003/Mar

(c) 2003 DECHEMA

File 358:Current BioTech Abs 1983-2003/Mar

(c) 2003 DECHEMA

FILE COPY
10/057,748

DIALOG

Set	Items	Description
S1	1581	RNA(W) PURIFICATION
S2	6	S1 AND (AMMONIUM(W) SULFATE)
S3	6	RD S2 (unique items)

? t s3/medium/1-6

>>>"MEDIUM" is not a valid format name in file(s): 41

3/3/1 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

05015353 EMBASE No: 1992155569

Crystallization of Aspartyl-tRNA Synthetase-tRNA(Asp) complex from *Escherichia coli* and first crystallographic results

Eiler S.; Boeglin M.; Martin F.; Eriani G.; Gangloff J.; Thierry J.C.; Moras D.

Institut de Biologie Moléculaire et, Cellulaire du CNRS, 15 rue R.

Descartes, 67084 Strasbourg-Cedex France

Journal of Molecular Biology (J. MOL. BIOL.) (United Kingdom) 1992, 224/4 (1171-1173)

CODEN: JMOBA ISSN: 0022-2836

DOCUMENT TYPE: Journal; Note

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

3/3/2 (Item 1 from file: 144)

DIALOG(R)File 144:Pascal

(c) 2002 INIST/CNRS. All rts. reserv.

08571457 PASCAL No.: 89-0120500

Purification of *Xenopus* transcription factor IIIA and 5 S RNA from 7 S ribonucleoprotein particle by ammonium sulfate precipitation

ZHIGANG SHANG; WINDSOR W T; YOU-DI LIAO; CHENG-WEN WU

State univ. New York, school medicine, dep. pharmacological sci., Stony Brook NY 11794, USA

Journal: Analytical Biochemistry, 1988, 168 (1) 156-163

Language: English

3/3/3 (Item 1 from file: 370)

DIALOG(R)File 370:Science

(c) 1999 AAAS. All rts. reserv.

00504890 (USE 9 FOR FULLTEXT)

Structure of the HIV-1 Nucleocapsid Protein Bound to the SL3 PSI -RNA Recognition Element

De Guzman, Roberto N.; Wu, Zheng Rong; Stalling, Chelsea C.; Pappalardo, Lucia; Borer, Philip N.; Summers, Michael F.

R. N. De Guzman, Z. R. Wu, C. C. Stalling, M. F. Summers, Howard Hughes

Medical Institute and Department of Chemistry and Biochemistry,

University of Maryland-Baltimore County (UMBC), 1000 Hilltop Circle,

Baltimore, MD 21250, USA. ; L. Pappalardo and P. N. Borer, Department of

Chemistry, Syracuse University, Syracuse, NY 13244, USA.

Science Vol. 279 5349 pp. 384

Publication Date: 1-16-1998 (980116) Publication Year: 1998

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Reports

Word Count: 2802

3/3/4 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

(c) 2002 Thomson Derwent & ISI. All rts. reserv.

0167625 DBA Accession No.: 94-10176

Yeast RNA partition accompanying adsorption in salt/PEG two-phase system - *Saccharomyces cerevisiae* RNA purification; effect of

polyethylene glycol and RNA mol.wt.
AUTHOR: Kimura K; Kobayshi H
CORPORATE AFFILIATE: Nat.Inst.BioSci.Human-Technol.Japan
CORPORATE SOURCE: National Institute of Bioscience and Human Technology,
Higashi 1-1, Tsukuba, Ibaraki 305, Japan.
JOURNAL: Biotechnol.Tech. (8, 7, 473-78) 1994
CODEN: BTECE6
LANGUAGE: English

3/3/5 (Item 2 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2002 Thomson Derwent & ISI. All rts. reserv.

0132342 DBA Accession No.: 92-04834
Partitioning of yeast RNA in aqueous two-phase system - *Saccharomyces cerevisiae* high mol.wt. **RNA purification** by phase partitioning
AUTHOR: Kimura K; Kobayashi H
CORPORATE SOURCE: Fermentation Research Institute, Higashi 1-1-3, Tsukuba, Ibaraki 305, Japan.
JOURNAL: Biotechnol.Tech. (6, 2, 149-54) 1992
CODEN: BTECE6
LANGUAGE: English

3/3/6 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2002 Thomson Derwent & ISI. All rts. reserv.

0013946 DBA Accession No.: 83-07926
Purification and characterization of an extracellular protease from *Flavobacterium arborescens* - use in DNA and **RNA purification**
AUTHOR: Boguslawski G; Shultz J L; Yehle C O
CORPORATE AFFILIATE: Miles-Lab.
CORPORATE SOURCE: Biosynthesis Research Biotechnology Group, Miles Laboratories, Inc., Elkhart, Indiana 46515, USA.
JOURNAL: Anal.Biochem. (132, 1, 41-49) 1983
CODEN: ANBCA2
LANGUAGE: English
?

? t s2/k/1-6

>>>KWIC option is not available in file(s): 41, 77, 399

2/K/1 (Item 1 from file: 73)

DIALOG(R)File 73:(c) 2002 Elsevier Science B.V. All rts. reserv.

...Da) complexed with its cognate tRNA (molecular mass 25,000 Da) have been grown using **ammonium sulfate** as precipitant. The crystals belong to the orthorhombic space group C222inf 1 with unit cell...

DRUG DESCRIPTORS:

ammonium sulfate; transfer rna--endogenous compound--ec

MEDICAL DESCRIPTORS:

escherichia coli; methodology; nonhuman; note; priority journal; **rna purification**; X-ray crystallography

...CAS REGISTRY-NO.: 6899-03-2 (aspartic acid); 7783-20-2 (**ammonium sulfate**); 9014-25-9 (transfer rna)

2/K/2 (Item 1 from file: 144)

DIALOG(R)File 144:(c) 2002 INIST/CNRS. All rts. reserv.

...of Xenopus transcription factor IIIA and 5 S RNA from 7 S ribonucleoprotein particle by **ammonium sulfate** precipitation

English Descriptors: Transcription factor; Xenopus laevis; 5S-RNA;

Purification; Chemical precipitation; Ammonium Sulfates;

Ultraviolet spectrometry

French Descriptors: Facteur transcription; Xenopus laevis; RNA 5S;

Purification; Precipitation chimique; **Ammonium Sulfate**;

Spectrometrie UV; Facteur transcription IIIA

2/K/3 (Item 1 from file: 370)

DIALOG(R)File 370:(c) 1999 AAAS. All rts. reserv.

References and Notes:

...synthesis of isotopically labeled RNA were prepared from Methylophilus methylotrophus grown with [¹⁵N]**ammonium sulfate** and [¹³C]methanol and purified as described [R. T. Batey, J. L. Battiste...B. M. Lee for collecting some of the NMR data, R. Wall for assistance in **RNA purification**, and R. Edwards and M. Zawrotny for technical support.

2/K/4 (Item 1 from file: 357)

DIALOG(R)File 357:(c) 2002 Thomson Derwent & ISI. All rts. reserv.

- Saccharomyces cerevisiae **RNA purification**; effect of polyethylene glycol and RNA mol.wt.

...ABSTRACT: Saccharomyces cerevisiae total RNA in a potassium phosphate/polyethylene glycol (PEG) system and in an **ammonium sulfate** /PEG system was characterized with regard to the effects of PEG and RNA mol.wt...

DESCRIPTORS: Saccharomyces cerevisiae **RNA purification**, phase partitioning, salt-polyethylene glycol two-phase system, PEG, RNA mol.wt. effect yeast fungus...

2/K/5 (Item 2 from file: 357)

DIALOG(R)File 357:(c) 2002 Thomson Derwent & ISI. All rts. reserv.

- Saccharomyces cerevisiae high mol.wt. **RNA purification** by phase partitioning

...ABSTRACT: was examined using 3 types of aq. two-phase systems: potassium phosphate-polyethylene glycol (PEG), ammonium sulfate-PEG and dextran sulfate-PEG-NaCl. In these 3 systems, the PEG mol.wt. was

...
DESCRIPTORS: Saccharomyces cerevisiae high mol.wt. RNA purification, phase partitioning in potassium phosphate-PEG, ammonium sulfate-PEG, dextran sulfate-PEG aq. two-phase system fungus yeast

2/K/6 (Item 3 from file: 357)

DIALOG(R)File 357:(c) 2002 Thomson Derwent & ISI. All rts. reserv.

- use in DNA and RNA purification

...ABSTRACT: arborescens NRRL B-11022 was purified 60-fold by subjection of the crude supernatant to ammonium sulfate precipitation, chromatography on DEAE-cellulose and hydroxylapatite and sucrose gradient centrifugation. The purified enzyme was...

DESCRIPTORS: alkaline serine protease isol., purification, characterization, appl. to DNA purification, RNA purification, Flavobact. arborescens

?

0132342 DBA Accession No.: 92-04834

Partitioning of yeast RNA in aqueous two-phase system - *Saccharomyces cerevisiae* high mol.wt. RNA purification by phase partitioning

AUTHOR: Kimura K; Kobayashi H

CORPORATE SOURCE: Fermentation Research Institute, Higashi 1-1-3, Tsukuba, Ibaraki 305, Japan.

JOURNAL: Biotechnol.Tech. (6, 2, 149-54) 1992

CODEN: BTECE6

LANGUAGE: English

ABSTRACT: The partition behavior of RNA extracted from baker's yeast (*Saccharomyces cerevisiae*) was examined using 3 types of aq. two-phase systems: potassium phosphate-polyethylene glycol (PEG), ammonium sulfate-PEG and dextran sulfate-PEG-NaCl. In these 3 systems, the PEG mol.wt. was more significant than the effect of the electrolyte; this was in contrast to previous results from a dextran-PEG system. The partition coefficient decreased with an increase in PEG mol.wt. (1540, 4000 and 6000) in the K₂PO₄-PEG and (NH₄)₂PO₄-PEG systems. In the K₂PO₄-PEG1540, K₂PO₄-PEG4000, (NH₄)₂PO₄-PEG1540 and dextran sulfate-PEG6000 systems, more than 70% of total RNA added and more than 95% of high mol.wt. RNA added were concentrated at the interface (confirmed by HPLC and agarose gel electrophoresis analysis). This effect was shown to arise by two-phase partition accompanied by adsorption, and depended mainly on the PEG mol.wt. Thus, the possibility exists for an efficient and easy means for concentrating or extracting high mol.wt. RNA. (8 ref)

DESCRIPTORS: *Saccharomyces cerevisiae* high mol.wt. RNA purification, phase partitioning in potassium phosphate-PEG, ammonium sulfate-PEG, dextran sulfate-PEG aq. two-phase system fungus yeast

SECTION: Microbiology-Genetics; Purification-Downstream Processing (A1,L1)
?

0167625 DBA Accession No.: 94-10176

Yeast RNA partition accompanying adsorption in salt/PEG two-phase system -
Saccharomyces cerevisiae **RNA purification**; effect of
polyethylene glycol and RNA mol.wt.

AUTHOR: Kimura K; Kobayashi H

CORPORATE AFFILIATE: Nat.Inst.BioSci.Human-Technol.Japan

CORPORATE SOURCE: National Institute of Bioscience and Human Technology,
Higashi 1-1, Tsukuba, Ibaraki 305, Japan.

JOURNAL: Biotechnol.Tech. (8, 7, 473-78) 1994

CODEN: BTECE6

LANGUAGE: English

ABSTRACT: Partitioning of Saccharomyces cerevisiae total RNA in a potassium phosphate/polyethylene glycol (PEG) system and in an **ammonium sulfate** /PEG system was characterized with regard to the effects of PEG and RNA mol.wt. The shift in RNA partitioning was investigated for a PEG mol.wt. range of 300 to 20,000. RNA was partitioned mainly to the top phase in the system with PEG of mol.wt. 1,000, mainly at the interface or almost equally to both phases in the system with PEG of mol.wt. 1,000-2,000, and mainly to the bottom phase in the system with PEG mol.wt. of more than 2,000. The effect of PEG mol.wt. on partitioning of low mol.wt. RNA, less than 5.8S, was qualitatively similar to that of high mol.wt. RNA, over 17S. However, partitioning of high mol.wt. RNA was more one-sided than that of low mol.wt. RNA. In a system with PEG 1,000-2,000, remarkable adsorption of high mol.wt. RNA at the interface was investigated; more than 90% of the high mol.wt. RNA added was concentrated. Adsorption of RNA at the interface was quantitatively demonstrated as a novel example of adsorption of a soluble macromolecule in an aq. two-phase system. (10 ref)

DESCRIPTORS: Saccharomyces cerevisiae **RNA purification**, phase partitioning, salt-polyethylene glycol two-phase system, PEG, RNA mol.wt. effect yeast fungus (Vol.13, No.17)

SECTION: PURIFICATION-Downstream Processing (L1)

?

? show files

File 5: Biosis Previews(R) 1969-2002/Jun W3
(c) 2002 BIOSIS

File 6: NTIS 1964-2002/Jul W1
(c) 2002 NTIS, Intl Cpyrght All Rights Res

File 34: SciSearch(R) Cited Ref Sci 1990-2002/Jun W5
(c) 2002 Inst for Sci Info

File 40: Enviroline(R) 1975-2002/May

File 41: Pollution Abs 1970-2002/Jul
(c) 2002 Cambridge Scientific Abstracts

File 50: CAB Abstracts 1972-2002/May
(c) 2002 CAB International

File 65: Inside Conferences 1993-2002/Jun W4
(c) 2002 BLDSC all rts. reserv.

File 68: Env.Bib. 1972-2002/May
(c) 2002 Internl Academy at Santa Barbara

File 71: ELSEVIER BIOBASE 1994-2002/Jun W4
(c) 2002 Elsevier Science B.V.

File 73: EMBASE 1974-2002/Jun W3
(c) 2002 Elsevier Science B.V.

File 76: Life Sciences Collection 1982-2002/Jun
(c) 2002 Cambridge Sci Abs

File 77: Conference Papers Index 1973-2002/May
(c) 2002 Cambridge Sci Abs

File 94: JICST-EPlus 1985-2002/May W1
(c) 2002 Japan Science and Tech Corp(JST)

File 98: General Sci Abs/Full-Text 1984-2002/May
(c) 2002 The HW Wilson Co.

File 103: Energy SciTec 1974-2002/Jun B1
(c) 2002 Contains copyrighted material

File 143: Biol. & Agric. Index 1983-2002/May
(c) 2002 The HW Wilson Co

File 144: Pascal 1973-2002/Jun W4
(c) 2002 INIST/CNRS

File 155: MEDLINE(R) 1966-2002/Jun W4

File 156: ToxFile 1966-2002/Mar W4
(c) 2002

File 162: CAB HEALTH 1983-2002/May
(c) 2002 CAB INTERNATIONAL

File 172: EMBASE Alert 2002/Jun W4
(c) 2002 Elsevier Science B.V.

File 305: Analytical Abstracts 1980-2002/Jun W2
(c) 2002 Royal Soc Chemistry

File 369: New Scientist 1994-2002/Jun W2
(c) 2002 Reed Business Information Ltd.

File 370: Science 1996-1999/Jul W3
(c) 1999 AAAS

File 399: CA SEARCH(R) 1967-2002/UD=13626
(c) 2002 AMERICAN CHEMICAL SOCIETY

File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

File 35: Dissertation Abs Online 1861-2002/May
(c) 2002 ProQuest Info&Learning

File 91: MANTIS(TM) 1880-2002/Aug
2001 (c) Action Potential

File 110: WasteInfo 1974-2002/Jul
(c) 2002 AEA Techn Env.

File 135: NewsRx Weekly Reports 1995-2002/Apr W1
(c) 2002 NewsRx

File 164: Allied & Complementary Medicine 1984-2002/Jun
(c) 2002 BLHCIS

File 185: Zoological Record Online(r) 1978-2002/May
(c) 2002 BIOSIS

File 357: Derwent Biotech Res. _1982-2002/Mar W5



Creation date: 07-21-2004
Indexing Officer: HNGUYEN29 - HOANGANH NGUYEN
Team: OIPEBackFileIndexing
Dossier: 10057748

Legal Date: 08-13-2002

No.	Doccode	Number of pages
1	CTNF	9
2	892	1
3	1449	1

Total number of pages: 11

Remarks:

Order of re-scan issued on